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STAR TREKL

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PHENOMENA

The Guide to the STAR TREK Galaxy

FILE 5 CARD 7

THE CRYSTALLINE ENTITY



PHENOMENA

The U.S.S. Enterprise NCC-1701-D encounters this lethal phenomenon twice, finding death and destruction in its wake. Will the crew be able to communicate with the Crystalline Entity, or will it destroy them?

he Crystalline Entity is an organic, spacefaring life form that absorbs energy to sustain itself. It has a crystalline structure, resembling a giant snowflake, and is capable of traveling at warp speed. To this date, Starfleet has only encountered one example of this species.

Starfleet has had limited contact with the Entity, so much of the information about it is conjectural. What information does exist is

based on 12 attacks on planets and colonies.

The Entity is first identified by the crew of enormous amounts of the *U.S.S. Enterprise* NCC-1701-D in 2364, during a mission to Omicron Theta. All organic life on the colony was destroyed in 2336. Four hundred and eleven colonists were lost; only the android Data survived.

> During the Enterprise's mission, Data's 'brother,' Lore, is discovered, and it emerges that the Entity, which is acting with Lore, was responsible for the

disaster. Eighteen years later, the planet's ecosystem has still not recovered.

Nemesis

Most of the Federation's information about the Crystalline Entity comes from the work of Dr. Kila Marr, a xenologist who makes a special study of the Entity after her son, Raymond, is killed at Omicron Theta.

Dr. Marr regards the Entity as a deadly predator that should be hunted down and killed. However,



Resembling a large snowflake, the Crystalline Entity is an organic life form with large tendril-like arms. The origins of the Crystalline Entity are unknown, as is the number of similar entities

AGENT OF DESTRUCTION



Crystalline Entity works by literally scouring a planet of all life forms, plant and animal. As the planet surface, a wide angled beam is engaged which acts as a sweeper, destroying every living



Melona IV, destroying anything in its path. The only colonists is to flee. The entity works quickly, destroying a vast area in a matter of



within the hear of the entity, its destructive path over the surface begins. The entity, after finishing off one planet, will one planet, will move on to another in order to satisfy its appetite. Its last attack is on Melona IV in 2368.

With the



After the Crystalline Entity has passed over Melona IV, nothing is left on the planet's surface. All life forms, whether plant or animal, have been absorbed and the planet is rendered a wasteland, left to perhaps one

nothing in her work has enabled Starfleet to develop a means of tracking the Entity through space

Studies show that the Entity seems to function like a giant electromagnetic collector. It needs a considerable amount of power to sustain itself, which it acquires by stripping every form of life from the worlds it encounters, and converting it to energy.

Total destruction

When it attacks a planet, it enters the atmosphere and fires a wide energy beam at the surface. Everything in the path of the beam is destroyed. The resulting energy is then absorbed by the Entity. During an attack, the Entity creates considerable atmospheric disturbance. When the Entity attacks the colony on **Melona IV**, it takes a little less than 27 hours for it to completely strip the planet of life.

The Entity is extremely thorough. All biological life is destroyed, including vegetation and insects. Even bacteria are eradicated. The aftermath of the Entity's attacks are always the same, leaving residual bituminous matter in the soil. This is presumably a biproduct of the absorption process.

No survivors

Until 2368, nobody survives an attack by the Crystalline Entity. However, in that year a group of colonists and

Although the **Crystalline Entity** destroys all organic life on the **Omicron Theta** colony in 2336, its involvement is not uncovered for a further 18 years.

Commander Riker's party on Melona IV are the only people to ever survive an encounter with the **Crystalline Entity** in its 12 attacks on planets









Enterprise crew members take refuge in caves on Melona IV, as the Entity strips the planet of life. Other colonists on Forlat

III had also tried to take shelter in caves, but without success. It seems highly likely that a combination of kelbonite and fistrium, refractory metals in the cave walls.

protect the Melona IV colonists from the Entity.

After this latest attack, Dr. Marr joins the Enterprise in an attempt to learn more about the Entity. Gamma scans of the planet's surface reveal that the Entity generates antiprotons

The Enterprise adjusts her scanners and discovers that the Crystalline Entity leaves a trail of antiprotons as it travels through space, and so can be tracked.

Talking to the enemu

The Entity is at least partially sentient, and is capable of communication. In 2364, Lore is able to send a signal to the entity. It is unclear what kind of

language it uses.

When the Enterprise intercepts the Entity in 2368, Commander Data and Dr. Marr attract it with a graviton pulse. Data modulates the pulse in an attempt to open communication, and the Entity responds by transmitting a pulse of its own. However, before the Entity's message can be translated, Dr. Marr initiates a sustained graviton beam that sets up a resonance effect within the Entity. This causes it to shatter, destroying it forever.

ENCOUNTERS WITH THE ENTITY



The U.S.S. ENTERPRISE's computer offers a graphic multi-perspective readout of the Entity as the crew learn more about its makeup.



The Entity has a crystalline structure, and is considerably larger than a starship. It can travel at warp speeds.



The Entity is attracted to all biological forms of life, which it needs to absorb to sustain itself. However, it cannot penetrate a ship's shields.



As a life form, the Entity is unique, and Federation records contain nothing similar.

The learning opportunity is considerable.



When Dr. Marr turns up the levels of a modulated graviton beam, she succeeds in her revenge on the creature that killed her son.



Dr. Marr, although successful in the Entity's destruction, has ruined her own career for the sake of revenge.

THE GALAXY

The Guide to the STAR TREK Galaxy

FILE 3

CARD 2

THE FOUR QUADRANTS



CHARTING The Galaxy

The Milky Way Galaxy is divided into four quadrants: Alpha, Beta, Gamma and Delta. The Federation is mostly in the Alpha Quadrant, the U.S.S. Voyager is stranded in the Delta, the Deep Space Nine station is near a wormhole to the Gamma, and the Klingons and Romulans are in the Beta.

Wormholes are the only practical means of traveling across the Galaxy, but most of them are unstable. The only stable example that has been discovered so far is the Bajoran wormhole in the Denorios Belt. Its terminus is in the Gamma Quadrant



ur galaxy is named the Milky Way Galaxy. It contains about a hundred billion stars, which are arranged in a disklike shape with a bulge at the center. The Galaxy is almost 100,000 light years in diameter, and at its central bulge is about 10,000 light years across.

The center of our galaxy is believed to be several very dense clusters of stars. This extremely high density of star population means that starship navigation within these close-packed clusters is, while not impossible, extremely hazardous.

It is also theorized that the center of the galaxy contains a large, dangerous black hole commonly known as 'The Monster' to astrophysicists familiar with the region.

The four quadrants

Because of the Galaxy's size, it has been divided into four major areas, each of equal size. These are called quadrants, and are slightly more manageable.

In interstellar mapping, a quadrant represents one-fourth of our Milky Way Galaxy. Each of the four quadrants forms a 90-degree pie wedge when seen from above or below the Galaxy's plane.

The four quadrants have been labeled **Alpha**, **Beta**,

The Milky Way Galaxy **Arrival** point U.S.S. Voyager NCC-74656 **The Caretaker transports** the Voyager 70,000 light Kazon vears across the Galaxy. **Bajoran wormhole** The Dominion Gamma Delta **Ouadrant** Quadrant Alpha Beta **Quadrant** Ouadrant Cardassian Union Klingon Empire **The United Federation of Planets**

The Milky Way Galaxy has a diameter of 100,000 light years, and at its widest point it is 10,000 light years across. Even at high warp speeds, it is difficult to make journeys over these kinds of distances. It is only the discovery of the Bajoran wormhole that has allowed the Federation to visit the Gamma Quadrant.





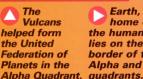
The Guide to the STAR TREK Galaxu

FILE 3 CARD 2

THE FOUR QUADRANTS



THE GALAXY



Earth, the home of the human race, lies on the border of the Alpha and Beta



This quadrant is home to most of the worlds that belong to the **United Federation** of Planets. including Earth, which lies on the perimeter between the Alpha and Beta quadrants. Some of the Federation member worlds also reside within the Beta Quadrant.

Even though Federation space lies within this 'home' quadrant, galactic space is so vast that even most parts of Alpha **Quadrant remain** uncharted and unexplored by Starfleet.

The Baioran space station Deep Space Nine is also located in the

Alpha Quadrant The stable Bajoran Wormhole in the nearby Denorios **Belt has a terminus** in the Gamma Quadrant, and has given the Federation a gateway into that part of the Galaxy.

The Alpha Quadrant is also home to the Cardassian Union

The Beta Quadrant

Federation of Planets fall within the Beta Quadrant. But Federation exploration of this part of

space has been limited. because both the Klingon and Romulan empires are located in this quadrant. It is not known exactly how far the Klingon and Romulan empires extend, but it seems certain that the vast majority of the Beta **Quadrant remains** unexplored.

A group of dissident Vulcans founded the Romulan Star Empire in the



The fierce Klingon Empire is a powerful force in the Beta Quadrant.



Very little is known about this quadrant. Like the Gamma Quadrant, it is tens of thousands of light years from Federation space.

The Borg Collective homeworld is believed to lie in the Delta Quadrant.

The Barzan Wormhole, which had been believed to be stable, had one terminus in the Delta Quadrant, but that end-point was discovered to move unpredictably, and it could now be located anywhere in the Galaxy.

The starship U.S.S. Voyager NCC-74656 was transported to the Delta Quadrant by the being known as The Caretaker. It is currently the only known Federation vessel to be traveling through that portion of the Galaxy.



Starfleet believes that the Borg homeworld is located in the Delta Quadrant.

The Jem'Hadar are the ruthless foot soldiers of the Dominion, which controls much of the space near the Bajoran wormhole's exit in the Gamma Quadrant.

This is the part of the Galaxy that is most remote from the **United Federation of Planets**, and at its closest point it lies 40,000 light years from Federation space. In 2369, a stable wormhole is discovered in the **Denorios Belt**, close to the planet Bajor. The Bajoran Wormhole provides an nearly instantaneous gateway into the Gamma Quadrant, eliminating what would normally be a 60year journey at warp nine, and enabling exploration of that region of space.

The **Dominion** appears to control large areas of the Gamma Quadrant, and, because of the Bajoran wormhole, now poses a threat to the worlds of the Alpha Quadrant.

Gamma and Delta.

Each quadrant is incredibly huge: about eight billion cubic light years, containing hundreds of thousands of sectors.

Sectors

The sector is the primary unit of measurement in known space. Each sector is 20 light years across, and normally contains six to 10 star systems.

Sectors are officially referred to by a designated three- to sixdigit number, for example Sector

3303, but some have been given common names in reference to their major star systems or planets. Earth is located in Sector 001, which is also known as the Sol Sector.

Vast distances

Most of space remains unexplored due to the tremendous distances across quadrants, and between star systems. It is estimated that traveling at a constant warp factor nine, a journey across the

Milky Way Galaxy in one plane would take 66 years. At that speed, it would take over seven years just to cross our own Federation space.

Without Zefram Cochrane's invention of warp drive in 2063, and faster-than-light travel, exploration of interstellar space could never have happened. Without warp capability, a spaceship at full impulse speed would take 400,000 years to travel the length of the Milky Way, and another eight million years to reach the nearest galaxy.

GALAXY **FACTS**

- It will take the U.S.S. Voyager at least 70 vears to return to the Alpha Quadrant. Assuming the ship has to stop to take on supplies and make repairs, the journey is more likely to take centuries.
- Several 'superbeings,' including Q and the Caretaker, seem capable of traveling across quadrants at will. It is not known how they accomplish this.



THE GALAXY

The Guide to the STAR TREK Galaxy

FILE 3 CARD 3A

ALPHA QUADRANT



THE GALAXY

CLASS-M PLANET

ery little is known about Aldebaron Dr. Elizabeth **Dehner** is stationed here before being picked up for her next assignment to serve aboard the original Starship Enterprise during Captain James T. Kirk's first five-year mission in command. Dehner's brief is to study crew reactions under the duress of emergency situations. Her assignment is short-lived as she later perishes on the planet Delta Vega, along with Gary Mitchell, in 2265.



Dr. Dehner, along with fellow crewman Gary Mitchell, perishes in the line of duty on planet Delta Vega.

CLASS-M PLANET

Ipha Centauri, a tri-star system, is the nearest star system to Earth at 4.34 light years. Several planets, some Class-M, are within this system

In 2267, Zefram Cochrane informs Captain Kirk, Mr. Spock and Dr. McCov that he is from

this system, presumably moving there from Earth after he invents warp drive in 2063. Kirk also jokingly refers to Alpha Centauri as being a beautiful place when speaking to Colonel Fellini back on Earth in 1969 after an accident sends the U.S.S. Enterprise back in time.

He should be over 200 years old, but a youthful Zefram , Cochrane, courtesy of his 'Companion', appears to be thriving on a planetoid. Cochrane disappears from Alpha Centauri in 2117 after breaking the warp speed barrier from Earth in 2063.



CLASS-M PLANET



istinguished Vulcan. Federation Ambassador and Spock's father, Sarek successfully establishes a treaty with Alpha Cygnus IX. Sarek would be responsible for many similar treaties on various planets in his lifetime. His death on the Vulcan homeworld from Bendii Syndrome in 2368 robs the Federation of one of its most skillful negotiators.

Although Sarek was a man of many diplomatic gifts, he was unable to establish relations with his own son, Spock, for 18 years. Even after the two are reconciled, Sarek remains more a successful diplomat than a family man.

CLASS: UNKNOWN

his is the planet on which the Statutes of Alpha III, important documents regarding an individual's civil liberties, originate. These are cited in Captain Kirk's courtmartial of 2267 by his defending attorney Samuel T. Cogley

Captain Kirk faces a potentially career-ending court-martial for the death of crewman Ben Finney. His attorney, Samuel T. Cogley, is well versed in arcane aspects of interplanetary law and cites the Statutes of Alpha III which give a defendant the right to face his or her accuser.

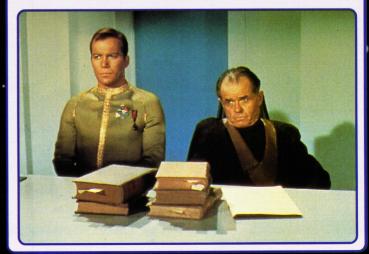


CLASS: UNKNOWN

creature with unusual properties, the mellitus originates from Alpha Majoris I. The mellitus, in a state of motion, is gaseous. At rest, the creature becomes solid. The mellitus is quoted as reference in a hearing aboard the U.S.S. Enterprise in 2267 when Lieutenant Commander

Montgomery Scott is accused of murdering several women on Rigel IV

Scott is later found innocent when Redjac, an evil life form that feeds on the fears of others, is found to be responsible for a series of murders on various planets in the galaxy over the last several hundred years.





The Guide to the STAR TREK Galaxu

FILE 3 CARD 3A

ALPHA QUADRANT



CLASS-M PLANET

Ipha Proxima II is quoted in the hearing aboard the Starship Enterprise regarding the deaths of several women on Rigel IV in 2267. Several women on Alpha Proxima II are murdered in a similar fashion to victims of Jack the Ripper on Earth in the 19th century and later on Rigel IV and Deneb II. Montgomery Scott, Chief Engineer of the Starship Enterprise, is initially accused of the murders, but is later cleared of all charges when **Rediac** is exposed as the timeless perpetrator. The entity feeds on the fear of its victims. Little is known, however, about the planet itself.

CLASS-M PLANET

Federation Class-M planet, Altair IV is the location of the distinguished Dr. Henri Roget's work at the Central Hospital. His pioneering work earns him the coveted Carrington Award in 2371

CLASS-M PLANET

he U.S.S.Enterprise is en route to planet Altair VI in 2267 to serve an ambassadorial function as honor guard before being redirected to planet Vulcan. Altair VI, after a protracted interplanetary war, had finally come to a peaceful settlement and the Enterprise crew was to attend the inauguration of their

The needs of the one outweigh the needs of the many - at least in Mr. Spock's case, when Captain James T. Kirk diverts from an important diplomatic function in order to save his first officer's life and head to the Vulcan homeworld. new president. However, Mr. Spock, in the throes of the Pon farr mating urge, is deathly ill and may perish unless he is returned to his homeworld. Kirk decides the life of his friend is a more pressing matter and puts the trip to Altair VI on hold.

At Starfleet Academy in 2285, Lieutenant Saavik undergoes a Kobayashi Maru ('no win scenario') testing simulation. The planet of Altair VI is used as a setting for a nearby fictitious ship which is damaged and in need of rescue

Commander William Riker is

CLASS-M PLANET

hird planet in the Altair star system. Commander William T. Riker, prior to his assignment aboard the U.S.S. Enterprise, invokes his executive officer's duty and insists that his captain aboard the U.S.S. Hood, DeSoto, remain on board the ship rather than risk his life on the planet surface of Altair III. The assignment, in Riker's opinion, represents too great a risk.

Commander William T. Riker, serving under Captain DeSoto on the U.S.S. HOOD, argues that it is unsuitable for his captain to beam down to Altair III. Fortunately, the incident does not earn DeSoto's wrath and he still speaks highly of his former first officer.



Captain Rixx, of the THOMAS PAINE, originally meets Captain Picard at an Altarian conference. This makes him more comfortable when he and two other officers inform Picard of a suspected alien infiltration of Starfleet in 2364.

told he has contracted Altairian encephalitis in a disorientating and fictional virtual reality created by a powerful alien being named Barash in 2367. Barash tries to convince Riker that the encephalitis is the reason for his memory loss.

An Altairian conference is the venue where Captain Jean-Luc Picard first meets Captain Rixx, a Bolian. Captain Rixx later tries to warn Picard of a conspiracy of mysterious aliens threatening the



very structure of Starfleet in 2364. Altair water, a drink favored by Dr. Leonard McCoy, is believed to originate from the Altair star system.



CLASS-M PLANET

he planet Altec is joined by neighboring planet Straleb in the Coalition of Madena. The two planets, although at peace, are stretched to the breaking point when it is revealed that two young lovers, Yanar from Altec and Benzan of Stralab, use a charming rogue trader, Thaduin Okona, in a ruse to hide their planned nuptials. When their plan is finally revealed by Okona, the two planets once again find peace.



A charming and outrageous spacefaring rogue, Thaduin Okona is just the type of person on whom others can lav blame.

FILE 19 A Guide to FEDERATION STARFLEET

STARFLEET ACADEMY

SHIP HANDLING

VOYAGER LANDING PROCEDURE

nlike many **Federation** starships, the *Intrepid-class U.S.S. Voyager NCC-* **74656** has the capability to land on a planet's surface. Such landings are not intended to be routine; like other **Starfleet** vessels, *Intrepid-class* ships are equipped with transporters and shuttlecraft. The landing maneuver is only used in extreme circumstances, normally when some form of interference prevents the safe use of transporters or if, for some reason, the entire crew must leave the ship.



The U.S.S. VOYAGER makes its first landing on the surface of a planet, after the crew find an ancient Earth vehicle floating in space.

Because starships rarely need to land, few pilots have ever performed the landing procedure. It is, however, taught at **Starfleet Academy** using **holodeck** simulations. Given reasonable atmospheric conditions, the landing procedure is relatively straightforward. During landing and take-off, the ship goes to Condition Blue, the warp core is taken offline, and the inertial dampers and structural integrity field are set to maximum. The pilot then plots a standard glide trajectory to take the ship down to the planet's surface. Minor course corrections may be necessary, and the inertial dampers will have to be adjusted to match the planet's atmosphere.

LANDING PROCEDURES: ENGINEERING

- The Chief Engineer takes the warp core offline, and vents all plasma from the nacelles.
- Engineering is assigned to stand by to engage atmospheric thrusters.

LANDING PROCEDURES: BRIDGE

- · All decks go to Blue Alert.
- The pilot places atmospheric controls at standby, brings landing mechanisms online, and sets inertial dampers at maximum.
- The starship enters the atmosphere on a standard glide-trajectory.
- The Ops Officer is in charge of maintaining environmental controls and monitoring EM discharges.
- · A landing site is chosen.
- Landing struts are extended, inertial dampers are released, and the structural integrity field is adjusted to match the planet's gravity.
- The landing struts are put down and locked into position as the ship settles down on the planet.

STARSHIP FACTS



The **U.S.S. Voyager** first lands on a planet in 2372, although the procedure has previously been tested on the **U.S.S. Intrepid**.



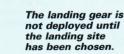
The U.S.S. Voyager makes two successful touchdowns during 2372. The first landing is made when trinimbic interference prevents the crew transporting down to a Class-L planet. The second landing is made when a group of **Kazon** capture the ship and force the crew to disembark.





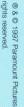
While the ship is in the upper atmosphere, the pilot uses the thrusters to make course

corrections.

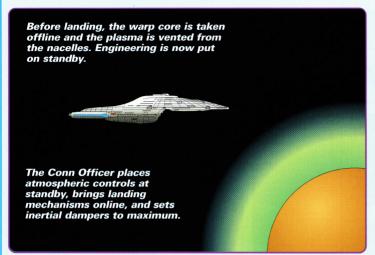


Immediately before landing, the inertial dampers are adjusted to match the planet's atmosphere.

INTREPID-CLASS ships like the U.S.S. VOYAGER NCC-74656 are among the few large Starfleet vessels that are capable of entering a planet's atmosphere and landing. The procedure is rarely used, because the crew can normally transport down to the planet's surface.



VOYAGER LANDING PROCEDURE



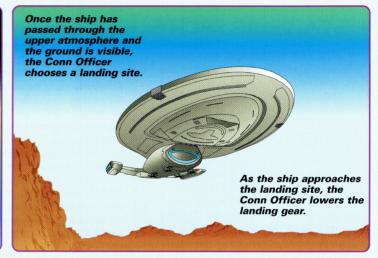
Poor atmospheric conditions and various types of interference can prevent the safe use of transporters or shuttles. In this situation, the decision may be taken to land the ship.



The ship is now at Condition Blue and ready to enter the planet's upper atmosphere. As it does so, the inertial dampers and the structural integrity field prevent it from breaking up.



Atmospheric conditions often mean that the Conn Officer must 3 Atmospheric conditions often mean small the standard glide make minor course adjustments to maintain the standard glide trajectory.



As soon as the planet's surface is in visual range, the Conn Officer selects a landing site and adjusts course accordingly. As he or she begins the final approach, the landing gear is deployed.



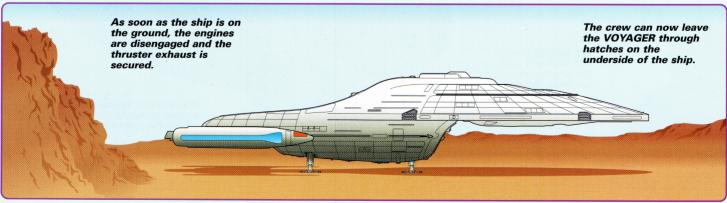
The U.S.S. VOYAGER has four landing struts which are on the underside of the engineering hull. As the **Conn Officer** deploys the landing gear, the doors slide open.



When the 6 landing gear is inside the ship, it is folded to take up the minimum amount of space. It starts to open out as the ship approaches the landing



Once fully extended, the landing gear is locked into place. Even though ship's systems absorb most of the impact, there is still a jolt as the ship comes to rest on the surface.



Immediately before landing, the ship's structural integrity field is adjusted to match the planet's gravity. When the ship comes to rest on the planet's surface, the engines are disengaged and the thruster exhaust is secured. Once this is done, the landing procedure is finished and the crew can leave the ship.

FILE 40 OTHER STARSHIPS

Bajoran Solar Sailing Ship

For hundreds of years the **Bajorans** travel through space in **solar sailing ships**, but the details of their journeys are lost — until **Commander Sisko** decides to build a replica of one of these ancient vessels, and take to the stars.

and relatively simple craft. It has no engines whatsoever, and relies entirely on solar winds to propel it through space. Legends say that the **Bajorans** used these solar sailing ships to explore their sector of the Galaxy 800 years ago, before human beings had even invented the combustion engine. Some stories say that solar sailing ships managed interstellar journeys, traveling as far as **Cardassia**. However, even though these vessels seem to have remained in use for over four hundred years, at some point details of their journeys became lost, and to modern eyes the solar sailor seems barely spaceworthy.

he Bajoran solar sailing ship is a small

Reconstruction

Plans for the solar sailing ships survive in the **Bajoran central archives**, along with star charts that show the paths of the solar winds. In 2371, **Commander Sisko** decides to build an exact replica of the craft using only the same technologies that would have been available to the ancient Bajorans. Timber is brought to his workshop on the station, where he makes the ship by hand. Over the next few weeks, he painstakingly recreates the vessel in exact detail, determined to discover if the design is spaceworthy. Sisko's only compromise in the construction is the installation of a **gravity net**.

After looking at the designs, *Deep Space Nine*'s Chief of Operations, *Miles O'Brien*, believes that the ship is not capable of making serious journeys through space. The construction is flimsy, and the vessel is so small that it could not carry enough atmosphere or supplies to make the interstellar journey to Cardassia. This position is supported by the *Cardassians*, who claim to have no record of Bajoran visitors

Sailing the stars

Nevertheless, Sisko thinks that there may be more to the tiny vessel than meets the eye. He decides to take his ship to the **Denorios Belt**. The trip is relatively short, but he believes that a successful voyage will go a long way toward proving the claims made for the *solar*

The sails of the craft are arranged in a butterfly wing pattern, and controlled by manuallycranked winches. With the wings folded, the vessel resembles a giant moth. But, with the huge, graceful wings unfurled, the ship transforms into a beautiful golden butterfly. The living area inside the ship is small and functional. The original crew slept in zero-grav hammocks, used a kind of sextant to navigate, and probably survived on basic rations.

During the journey it appears that the fragile construction will prove fatal: solar winds snap off the port mainsail, and then the jib. However, even after jettisoning a sail, the ship is capable of continuing on its voyage.

Light speed

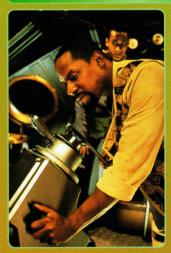
An extraordinary discovery is made when the ship is caught in a tachyon eddy. The light construction and the large surface area of the wings mean that the tachyons accelerate the ship to warp, enabling it to make an interstellar journey in a matter of minutes.

Sisko's ship comes to rest near Cardassia, confirming the reports in the ancient stories. It becomes apparent that markings on Sisko's star charts show the paths of various different **tachyon eddies**, the equivalent of 'trade winds.'

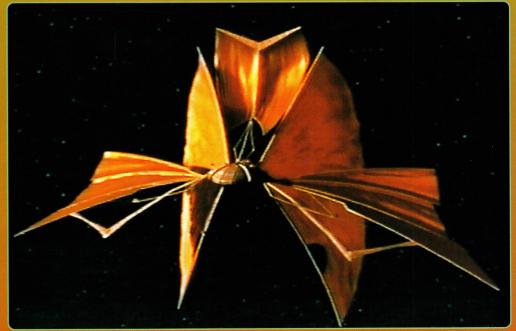
Faced with the evidence of Sisko's successful journey, the Cardassians uncover a crash site, proving that the Bajorans had indeed reached the **Cardassian homeworld**.



Commander Sisko reconstructs his ship from plans he recovers from the Bajoran archives. The archives also contain the star charts that he uses to navigate.



Mass is a vital consideration on the SOLAR SAILING SHIP. The living quarters are sparse and the ship doesn't carry any more equipment or machinery than is absolutely necessary. The sails are operated by hand winches, and hand-held tools are used to navigate.



As soon as Sisko unfurls the sails, they catch the solar winds and propel the ship away from DEEP SPACE NINE. The flight is a huge contrast to conventional spaceflight, which relies upon enormously powerful engines.

FILE 43 STARFLEET PERSONNEL

Doctor McCoy: The Healer

In 27 years of service aboard the U.S.S. Enterprise NCC-1701 and her successor the U.S.S. Enterprise NCC-1701-A, Dr. Leonard H. McCoy shows himself to be an extraordinarily talented and inventive ship's doctor.

Ithough he claims to be little more than a country doctor, **Leonard McCoy** proves to be one of the greatest ship's physicians in the history of Starfleet.

Musterious diseases

Shortly after he joins the U.S.S. Enterprise NCC-1701 in 2266, the ship's crew starts to act strangely. They lose their inhibitions and begin to behave erratically. McCoy discovers that they are being effected by a virus that alters their blood chemistry, making them act as if they are drunk. Even though affected himself, McCoy develops a cure in time to save the ship

Later the same year, McCoy is part of an away team that is infected with a mysterious disease. He quarantines the landing party, and, working without proper access to the ship's medical facilities, determines that the planet's population has been affected by a disease that prolongs childhood for hundreds of years, but causes death to adults. Using himself as a guinea pig, he develops an antitoxin that saves the lives of everyone left on the planet.

The following year, members of the Enterprise crew, including McCoy, are infected with a hyperaging disease. McCoy discovers that the effects of the disease, which is caused by an unusual form of radiation, can be reversed with adrenaline, an old fashioned treatment for radiation sickness

PROFILE ON **DOCTOR McCOY**

NAME: Leonard H. McCoy, MD LIFE FORM: Human male BORN: 2227

ASSIGNED TO ENTERPRISE: 2266

OCCUPATION: Ship's doctor aboard the U.S.S. Enterprise NCC-1701 and

U.S.S. Enterprise NCC-1701-A

MAJOR ACHIEVEMENTS: First Federation doctor to treat silicon-based life form, and to perform a brain transfer. Develops a cure for Psi-2000 virus and treatment for hyperaging condition. Saves the life of Sarek of Vulcan.

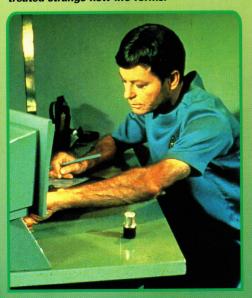


Dr. McCoy spends more than two and a half decades of his illustrious medical career serving aboard various incarnations of the U.S.S. ENTERPRISE. In this time he encounters many new and strange diseases.



McCOY IN SICKBAY

Working in the U.S.S. ENTERPRISE's sickbay, Dr. McCoy has developed cures for countless new diseases. Much of his work in deep space has been revolutionary, as McCoy has developed cures for unknown viruses and treated strange new life forms.



🔽 Vulcan transfusion

McCoy has had many important patients, among them the Vulcan ambassador Sarek. Without the operation performed by McCoy during the Babel conference, Sarek would



Bizarre parasite Dr. McCoy does far more than treat injuries to the crew. In 2267, his analysis of the Denevan neural parasites shows that they are vulnerable to ultraviolet radiation. This discovery is instrumental in saving the lives of millions, not to mention the ENTERPRISE's science officer, Mr. Spock.

NON-FEDERATION STARSHIPS

FILE 40 CARD 8

Bajoran Solar Sailing S

Bajoran solar sailor is one of the simplest and most elegant ships ever to travel the stars With wings that catch the solar waves, the

The ship can be steered by adjusting the position of the wings. Charts show the route taken by the solar winds.

BAJORAN SOLAR SAILING SHIP

Solar sailing ship

One or more

Propulsion: Solar winds and tachyon eddies Features: The ship is light enough to ride

tachyon streams at warp speed

Firepower: None

The wings of the ship catch the solar winds to propel the tiny vessel. If the ship enters a tachyon stream it is accelerated to warp speed.



great attention to detail, taking care to only use tools that would have been ancient Bajorans available to the Ben Sisko builds his ship with

SHIP moves Sisko's replica
SOLAR SAILING through space it is almost silent. This contrast to the is a marked regular hum that





the Bajoran archives show the paths taken Sisko finds in The wings are controlled by hand winches inside the living quarters. The supports may be damaged by strong solar currents or tachyon





SHIP has no

The SOLAR SAILING

The ship only has small living quarters. Because it relies on solar waves for propulsion it has no impulse

or warp engines.

navigational electronic

Ensign Ro Laren

When Captain Picard takes the rebellious, bitter Ensign Ro under his leadership, will she conform to Starfleet expectations and become a model officer, or will she ultimately revolt?

PROFILE ON RO LAREN

NAME: Ro Laren

LIFE FORM: Bajoran female

STATUS: Member of the Maquis

GRADUATES STARFLEET ACADEMY: 2364

ASSIGNMENTS: U.S.S. Wellington NCC-28473, U.S.S. Enterprise NCC-1701-D

SPECIALIST TRAINING: One year course at **Starfleet Tactical**

REMARKS: Ension Ro Laren is courtmartialed after an incident on Garon II. She is imprisoned in the Starfleet stockade on Jaros II, before being reinstated to Starfleet as a mission specialist. She is permanently assigned to the **Enterprise** at Captain Picard's personal request.

FIRST SEEN: 'Ensign Ro'

39A RO LAREN'S BAJORAN HERITAGE

39B RO LAREN AND CAPTAIN PICARD

OTHER FIL

THE BAJORANS. File 18

THE NEXT GENERATION......File 68

hen she is first assigned to the U.S.S. Enterprise NCC-1701-D in 2368, Ro Laren has than conventional Starfleet objects to her posting, but career. Her previous assignment, to the U.S.S. Wellington NCC-28473, ends in a court-martial. Ro is accused of disobeying orders on an away team mission, causing the death of eight officers. At the hearing, she refuses to speak in her defense. The court has no alternative but to find her guilty, and to sentence her to imprisonment in the stockade on Jaros II. Rumors persist that the full facts of the

In 2368, Admiral Kennelly releases Ro from prison and returns her to active duty. She is assigned to the U.S.S. Enterprise as a mission specialist.

already had a less Captain Jean-Luc Picard is overruled by Admiral Kennelly, who has reasons of his own for assigning Ro to the ship.

Hidden agenda

The Enterprise's mission is to dissuade a group of Bajoran terrorists from making attacks on Federation colonies. However, Kennelly is acting with the Cardassians to flush the Bajorans into the open, where the Cardassians intend to kill them. Kennelly hopes to



For many years, Ro Laren is an exceptional, if strong-minded, Starfleet officer. However, she must always struggle with her loyalty to the Baioran cause.

RO AND THE ENTERPRISE

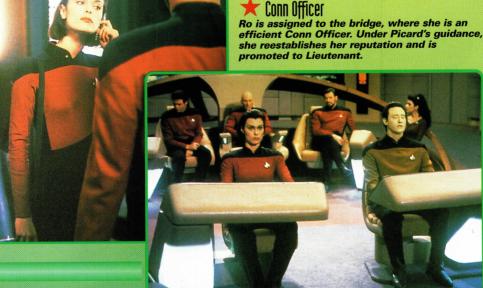
Difficult arrival

case are not known.

When Ro first comes aboard the U.S.S. ENTERPRISE she brings her reputation with her. She has been court-martialed for refusing to obey orders, and has little desire to stay in Starfleet.

Huge potential

Although he originally objects to Ensign Ro's assignment to the U.S.S. ENTERPRISE, Picard comes to realize that she is an impressive officer who will be a credit to his crew.









use Ro's freedom as a means of persuading her to help him.

Ro knows little about the Admiral's plan, but during the course of the mission she becomes suspicious, and tells Picard about everything that has happened. Ro and Picard form a plan which exposes Kennelly. At the end of the mission, Picard, who is impressed with Ro's performance, persuades her to join the Enterprise crew. He tells her that he believes she has the potential to become one of the best officers he has ever served with. Ro accepts and is posted to the bridge at the conn position.

Onboard relationships

Picard's support provides a vital turning point in Ensign Ro's career. With her assignment to the Enterprise she is restored to a position of trust, and after only a year, Picard recommends her for a highly coveted post on a one-year course at Starfleet Tactical, where she earns promotion to Lieutenant.

Ro also has the friendship of Guinan, the Enterprise's bartender, who recognizes the unconventional Bajoran's potential, and is instrumental in persuading Picard to give her a second chance.

Her relationships with other crew members are not quite so easy. Commander Riker initially finds her attitude abrasive, but when the Enterprise crew finds their memories effected by a Satarran weapon, the two officers discover a suppressed attraction.

Ro comes into conflict with

Counselor Troi when the

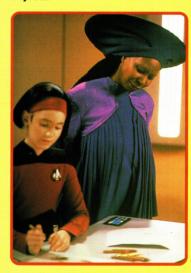
Enterprise is severely damaged after colliding with a quantum filament. The accident leaves Ro. Troi, and Chief Miles O'Brien on the bridge. Although Ro has far more command experience than Troi, the counselor outranks her. and takes command of the saucer section. As the ship is in grave danger of a core breach, Ro suggests they should perform a saucer separation to save at least some of the crew. Troi overrules her and, against the odds, the crew are able to save the ship. Ro offers the counselor a reluctant apology, but their relationship

doesn't seem to suffer. Extraordinary events

During her time on the Enterprise, Ro undergoes two very unusual transformations. In 2368, she and Chief Engineer Geordi La Forge are exposed to a Romulan cloaking device that suspends them in interspace, rendering them invisible and allowing them to pass through solid objects. At first, Ro believes that they are dead, but the two officers eventually discover what has happened, and after an encounter with a similarly effected Romulan, exposure to an anionic beam restores them to normal space.

The following year, Ro is part of an away team that is exposed to a STRANGE EXPERIENCES

★ Out of phase After exposure to an experimental Romulan interphase generator, Ro is placed in a cloaked state that allows her to pass through solid





Second childhood In 2369, Ensign Ro is one of a group of ENTERPRISE personnel who are reduced to childhood by an energy field. Thankfully, she is later restored to adulthood.

strange energy field that reduces them to childhood. Ro finds the experience unpleasant. Eventually, Chief O'Brien finds a way of reversing the effects of the field using the ship's transporters.

After her return to the Enterprise from Starfleet Tactical in 2370, Admiral Necheyev assigns Lieutenant Ro to infiltrate the Maquis. Ro makes use of

her troubled background to win the trust of the Maguis, but in the course of the mission she comes to feel, like many other Starfleet officers, that Starfleet's attitude to the Maguis is unreasonable.

Proud of her roots

Ro has always been proud of her Bajoran heritage, and feels that she cannot betray the Maguis. Reluctantly, she tells the Maquis about the trap she is supposed to lure them into, and leaves Starfleet. Her greatest regret is disappointing Captain Picard.

"I've always thought Starfleet could learn a lot from me, Captain." - Ro Laren to Captain Picard

VALUED OFFICER



Outspoken

From the very beginning it is clear that Ro is a strong-minded officer. In briefings she has a distinct voice, and is not afraid to contradict senior officers if she feels they are mistaken.



Ro becomes an essential part of the ENTERPRISE crew. She is assigned to the command division, and it emerges that she has a special aptitude for tactics. When aliens possess the bodies of an ENTERPRISE away team, Ro and Geordi La Forge implement a plan to render them unconscious using anesthezing gas. anesthezine gas.



Command material

Although they get off to a bad start, Ensign Ro and Commander Riker have much in common. As time progresses, it becomes clear that there is even an underlying thestion between them. attraction between them.

PADDS: Design and Operation

Among the complex computer systems aboard any starship, the handiest and most practical facet for most crew members is the appropriately-named PADD.

he development and evolution of the Personal **Access and Display** Device has been one of the greatest spurs to the independence of crew members' ease of work and functionality in their shipboard tasks. It has freed Starfleet personnel from mounted computer interfaces and terminals, and made it easier for them to communicate and transfer information

The **PADD** is extremely powerful and, if properly configured for conn interface, it could even be used to fly the entire starship from any location from crew quarters to a corridor if memory and display limits were no problem. This ability reflects the Starfleet design goal of making handheld devices able to access any file or program in line with the user's security clearance

Construction

The standard PADD design features a basic three-layered construction of imbedded circuitcomposite materials that are no

Starfleet personnel to work anywhere that suits them. It has a limited memory, but can easily be connected to a ship's main computers, accessing all the information that is stored there.

The PADD is a versatile computer device that allows

PADDs vary in size. Many can easily be carried in the palm of your hand. Even the larger PADDs are light and portable.

PADDs come in many different shapes and sizes, but all of them use a graphic inter-face that is operated by touch. If the user desires, PADDs can also accept spoken commands.

> The standard handheld PADD measures 10 x 15 centimeters and is one centimeter thick. The casing is made of boronite whisker epoxy and is extremely sturdy.

The PADD is extremely lightweight and can easily be carried from place to place.

computer station. They allow the user complete mobility, and are often used for working in crew quarters or off-duty areas such as Ten-Forward.

PADDs

are typi-

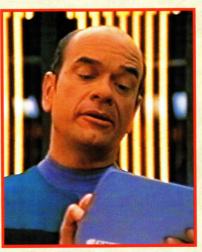
cally used

for working away from a

PADDs are custom made to serve various different functions. As a result, individual controls will vary from PADD to PADD.



One of the major advantages of PADDs is that they can be taken anywhere. This allows Starfleet officers to work in any environment they choose. On the U.S.S. ENTERPRISE NCC-1701-D, Commander Riker and Counselor Troi often take advantage of this to perform personnel reviews in Ten-Forward.



PADDs are often customized to meet the specific needs of the different ship's departments, such as medical. Even sophisticated device such as the EMH make use of PADDs to provide computer access.



PADDs are often used in conjunction with larger computer terminals. They allow personnel to access complicated information while moving about the ship without having to reroute the terminal they are working at. They also allow information from various sources to be compared easily.



more than 1 cm thick in total. A casing of boronite whisker epoxy carries the primary electronics bonded on, including the multilayer display screen; it provides protection even when dropped from a height of up to 35 meters.

Components

The PADD includes three replaceable elements: the isolinear memory chip, subspace transceiver array (STA), and sarium power loop.

The fully-charged sarium cell provides 16 hours of operation and is normally induction recharged when off-duty. When near exhaustion, it automatically flags the main computer to transfer its

task to a working unit.

Memory capacity of the isolinear chip is 4.3 kiloquads. Like the tricorder, the PADD can dump its memory to a main computer in less than one second.

Finally, the STA allows a data link between the PADD and the ship's computers over the same range as a communicator. This means that away teams can use PADDs which can also provide a transporter lock-on signal.

PADDs can also share computing functions and data transmissions with any other Starfleet device employing com protocols as used for STA devices. As with the communicator, such

transmissions are secured by encryption.

Interface

A user interface is provided by both built-in electro-sensitive areas of the casing and touch areas on the display screen. These are operated like any other multi-layer panel found in modern starships. The interface areas are designed for specific data manipulation and storage functions, and can be used to personalize the default setup and offer a corresponding security restriction to a single user.

Custom models can be fabricated aboard Galaxy-class starships or any other replication

facility equipped with custom isolinear circuit programming capability

The earliest models of PADDs measured a standard 10 x 15 centimeters and contained a display area 4.25 times larger than that of a tricorder, with generic control interface areas marked in brown. Later models have varied in shape and size, with some offering larger screens and even more designated control surfaces. The smallest PADDS are little larger than palm-sized: the largest are the size of a large tray. In all models, the screens allow the user to control the PADD through a graphical interface.



Because they use the STA, PADDs have access to all the information in the ship's main computers. Information can easily be downloaded to PADDs for ease of use.



Some PADDs use large raised buttons, but this is entirely down to the user, who can customize the PADD in any way he or she wants.



PADDs can easily be replicated on board starships. Special PADDs, like this engineering one, are custom made to suit specific functions.

Life Support Systems

Aboard any vessel, or space station, the mundane but very necessary life support and environment functions break down into four general areas: atmosphere, gravity, waste management, and emergency systems.

Il space vessels and facilities require extensive life support systems to support their crews. These systems are basically the same on all Federation ships and space stations. Life support systems maintain a single environment, suitable for most Federation races, although individual species, like the Benzites, may require supplemental devices, such as respirators to help them breathe.

Life support systems have to meet the highest safety standards. On Galaxy-class starships they are designed with multiple backups and redundant safety checks that protect the crew, even in the event of multiple systems failure. For instance, the atmospheric support system to the Main Bridge features seven independent safety interlocks.

Except for gravity, which is created by generators throughout the ship, this safety net includes mutually supportive parallel trunk lines and a reserve utilities distribution network for limited supplies of basics such as air, power and water. Life support equipment centers are on Decks 6, 9 and 13 in the primary hull, and Decks 11, 21,

24, and 34 in the engineering hull.

In the rare event of a system wide failure, there will still be sufficient atmosphere to maintain the crew for several hours. The exact length of time will depend on the number of personnel on board.

Atmosphere

Reflecting the overall ergonomic design, an oxygen-nitrogen atmosphere is maintained for Class-M life forms as a shipwide norm. Per standard 102.19 set by Starfleet Regulatory Agency, this amounts to air at 26° C, and 45% relative humidity at a pressure maintained at 101 kilopascals, amounting to 78% nitrogen, 21% oxygen, and 1% trace gases.

On the Galaxy class, some 10% of the habitable living space can be adjusted to classes H, K or L environmental norms without hardware modifications. Another 2% are equipped for swapout to classes N and N(2). However, the entire ship can be altered for natives of classes H-K-L planets with the replacement of atmospheric processor modules in a major Starbase refit.

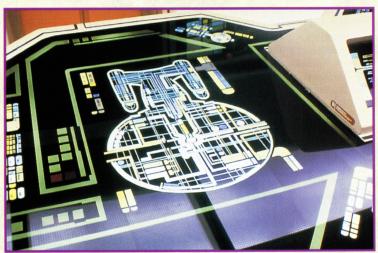
Processors are located throughout the ship at a rate of about two redundant units per every

All ship's systems, including life support, can be monitored from Main Engineering. If there is a shipwide life support failure, the engineering staff will have a minimum of 30 minutes to restore

the systems before the ship becomes uninhabitable.



Ships maintain an atmosphere roughly equivalent to that of a Class-M planet. This is suitable for most Federation member species. However some races, such as the Benzites, need additional breathing apparatus.



50 cubic meters of habitable ship's volume. The units combine carbondioxide removal with oxygen replenishment, mostly accomplished via natural photosynthetic bioprocessors. Normal maintenance calls for each side of the parallel system to take the load every 96-hour cycle, which allows for maintenance on the other, although individual units can be switched between the two for greater flexibility and redundancy.

The third backup atmospheric net can provide up to 50% of the system capacity for up to 24 hours. In addition, if the main and reserve atmospheric systems fail, contingency atmospheric modules, available at most corridor junctions,

Some life support systems, including gravity generators, can be adjusted to accommodate the needs of individual species. Outside her quarters, where gravity is maintained for humans, Ensign Melora Paslar must use an exo-skeleton.

can cover evacuation, repair, or shelter-seeking time of approximately 30 minutes.

Artificial gravity

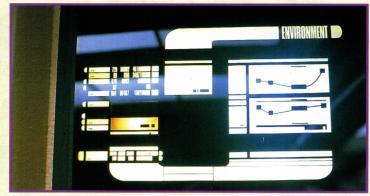
Aside from the ease of mobility for work and play it affords, and the pleasing 'natural' feel, artificial gravity has long been known to be practically indispensable for offworld living, due to its necessity for cellular growth and health.

For the Galaxy-class starship, hundreds of simple synthetic gravity generators provide the Class-M norm, tied in to the inertial dampers to counteract acceleration effects. In an effect much like the tractor beam, each generator creates a gravity field by using a controlled stream of gravitons generated by a superconducting stator rotating at speeds over 125,540 rpm, powered by energy tapped from the electroplasma system (EPS). The stator, built of thoronium arkenide, is in turn suspended within pressurized chrylon gas in the center of a





Life Support Systems



hollow sealed chamber of anicium titanide 454, measuring only 50 cm in diameter and 25 cm tall.

This device provides a graviton field of only a few picoseconds, so the decay time demands that generators be located every 30 meters or so. Thus, the ship at large includes two networks of 400 generators each in the primary hull, and two more networks of 200 each in the engineering hull. The generators are tied together by small waveguide conduits to allow 'field bleed' in cases of extreme maneuvering and inertial movement

Each stator is built in suspended state, and is maintained with only a synchronizing EPS energy pulse every hour or so. In the case of EPS loss, the stator will provide an attraction field for up to 240 minutes, with a dip down to only about 0.8g predicted. Sinesopidal ribs on the inner surface of each generator's sealed cylinder absorb motions with an amplitude up to 6 cm per second.

The crew are protected from the effects of acceleration by the inertial damping field, which enables the ship to accelerate to high speeds without pulverizing ship's personnel.

Since no starships can carry the required amounts of food and water for extended missions. recycling and waste reclamation is a must.

Aboard the Galaxy-class, complexes on Decks 6, 13 and 24 include treatment and recycling units for liquid waste, all of which is recycled into fresh water, food replication, or general matter replication.

Waste management

Solid waste is handled in processors on Decks 9, 13, and 34. These scan for composition, and route items to the most practical means required.

Some 82% of all solid waste can be recycled mechanically, but any material that cannot be directly recycled this way or chemically including about 5% of all waste classed as hazardous - is set aside for general matter replication. Due to the energy-intensive nature of full matter dematerialization, which is in effect a one-way transporter, most recycling is accomplished by the older and more common methods

Reliabilitu

Modern life support systems can cope with a number of situations

Forcefields prevent atmosphere from escaping the ship even when bay doors are open. If the atmosphere has been polluted by dangerous gases, and emergency systems are offline, the forcefield can be released manually.

The environment station on the Main Bridge keeps the command staff informed of the ship's status. Environmental systems are highly reliable, and in normal circumstances will not fail for more than 500 years.

that would have been fatal on earlier starships and space stations. Most notably, hull breaches are automatically contained by forcefields.

Under normal circumstances, life support is extremely reliable. Starfleet calculates that, barring a serious accident, life support failure should only occur once every five hundred years

Backup systems

Despite the redundancy built into all starship systems, designers must allow for emergency backup systems in case of system loss or damage

For the Galaxy class, the philosophy is twofold - a 30minute shipwide lighting and power backup system to cover repair time if needed, and 52 designated emergency shelters, such as the forward observation lounge at Deck 10, Section 1.

The backup system includes 425 of the corridor junction modules cited earlier which, in addition to atmospherics, include emergency lighting and batteries. The shelters, powered by a series of dedicated and protected power trunks, are designed to sustain up to 65 crew members for up to 36 hours. They also include 24 hours' worth of air, water, food and power supplies independent of even the backup, as well as two emergency pressure garments.

Evacuation options

Even in the event of an emergency, it is highly unlikely that life support will fail throughout the ship. In the event of a partial systems failure, the Commanding Officer may opt to evacuate the crew from the affected sections.

In case of a severe failure, the crew may be evacuated or, on a Galaxy-class starship, the Commanding Officer may initiate a saucer separation, with the entire crew taking refuge in the unaffected section.

EMERGENCIES



In the event of a shipwide systems failure, backup systems provide sufficient power to maintain restore systems or arrange for evacuation.

If the hull is breached emergency forcefields seal the damaged area. However, such systems are not always quick enough to prevent the loss of before atmospheric integrity is





Without a breathable atmosphere minutes to live. Backup systems ensure that at least 30 minutes, even

FILE 68 STAR TREK: The Original Series

• What Are Little Girls Made Of?

Christine Chapel has been waiting to be reunited with her fiance, Dr. Roger Korby, for years. Now, in the depths of space, she has found him. But something about Dr. Horby is wrong, and soon Kirk and his crew are threatened by the ancient technology of a long dead race.

CAPTAIN'S LOG STARDATE: 2712.4

"A signal from planet Exo III. Dr. Roger Korby has been located, he and part of his expedition remaining alive due to the discovery of underground ruins left by the former inhabitants of this world."

he *U.S.S. Enterprise NCC-1701* enters orbit around Exo III, where Nurse Chapel hopes to be reunited with her lover, Roger Korby. Mr. Spock points out that Korby has not been heard from in five years, and that the chances of anyone surviving on the planet seem slim. Moments later, Korby himself calls in.

Kirk and Chapel beam down to a maze of tunnels where they meet **Dr. Brown**, Korby's assistant. Though Chapel and Brown are old friends, he seems cool, almost mechanical in his responses.

Brown takes Kirk and Chapel to Korby's quarters, where they meet **Andrea**, a beautiful woman, and Korby himself.

Ancient machines

Korby stops Kirk from communicating with the ship. During a scuffle, Kirk wounds Dr. Brown, revealing him to be an android. Kirk is then attacked by another android, the giant **Ruk**.

Andrea is also an android; she and Ruk were left behind by the **Old Ones**, the original inhabitants of Exo III.

Korby wants Kirk's help spreading androids throughout the Galaxy. He tells him that by living in immortal android bodies, mankind has an opportunity to create a perfect society.

When Kirk refuses to help, Korby makes an android copy of him. However, Kirk manages to give the android some surprising attitudes. When the android returns to the *Enterprise*, he insults Spock, who quickly realizes that something is not right. Eventually, Ruk and the Kirk-android are both destroyed.

Kirk and Chapel are surprised to discover that Korby himself is an android. The man Christine loved is long dead, and she knows she could never love this cold duplicate. With his plan collapsing around him and unable to face the truth about his own nature, the Korby-android holds Andrea close and destroys both of them with a single phaser blast.

STARSHIP FACTS

Nurse Christine Chapel gave up a career in bioresearch to sign aboard the U.S.S. Enterprise NCC-1701.

ON SCREEN...



1 Captain Kirk and Nurse Chapel beam down to a series of underground caverns on Exo III. They are soon met by Dr. Brown, who takes them to meet Roger Korby.



The android Ruk watches Kirk and Chapel from the shadows. He is thousands of years old and is a product of the lost technology of the Old Ones.



3 Korby makes an android copy of Kirk. He plans to take control of the U.S.S. ENTERPRISE and spread his androids through the Galaxy.



4 The android Kirk is an almost exact copy of the captain, but although they look and sound the same Kirk has managed to imprint it with some uncharacteristic ideas.



When Kirk calls him a "half breed", Spock realizes that something is wrong. He soon discovers that the Kirk who returned to the ship is an android.



6 Eventually it is revealed that Korby is an android. Unable to deal with this truth, he turns a phaser on himself and Andrea, destroying the last of the androids.

FILE 68 STAR TREK: The Original Series

'Dagger of the Mind'

The **U.S.S. Enterprise** completes a routine mission to the **Tantalus V penal colony**, but before they leave a stowaway beams aboard. The **Enterprise**'s guest is not an escaped prisoner, though: he's the colony's former director, and something on the planet has driven him insane.

CAPTAIN'S LOG

"Standard orbit around Tantalus V. Mission: routine investigation and report as per ship's medical log. As for my last entry, it seems I will get to meet Dr. Adams at last. However, I would have preferred other circumstances."

he *U.S.S. Enterprise NCC-1701* has just completed a mission to the **Tantalus V penal colony** when a stowaway is discovered on board.

The stowaway is **Dr. Simon Van Gelder**, the former director of the penal colony. The current director, **Dr. Adams**, claims that a failed experiment rendered Van Gelder insane. Van Gelder is left in sickbay while **Kirk** and **Dr. Helen Noel**, a member of the medical staff with psychiatric experience, go to the colony.

The facility seems normal, although Kirk finds the inmates a little 'blank.' The captain is curious about the **neural neutralizer** device that injured Van Gelder. According to Adams, the device neutralizes brain waves and relaxes inmates for a short period of time. On the ship, an agitated Van Gelder warns that Kirk and Noel are in danger.

Mind control

That night, Kirk and Noel secretly test the neutralizer on the captain. He instantly accepts Noel's suggestions as reality. Contrary to Adams' claims, it seems the machine is highly effective. During a test, Noel is overpowered by Adams, who brainwashes Kirk into forgetting his mission. He convinces the captain he is madly in love with Noel and, when he wakes, Kirk only has thoughts for her. She reminds Kirk of their mission and he sends her to dismantle the power and shut down the security forcefield so that the *Enterprise* can reach them.

Meanwhile, aboard the ship, **Mr. Spock** mind-melds with Van Gelder. Spock learns the director has been brainwashed by Adams. Spock tries to contact Kirk, but is only able to get through when Noel shuts the power off.

With the power off, Kirk knocks out Dr. Adams and escapes from the treatment room. Power is returned, the neural neutralizer is reactivated, and Dr. Adams is exposed to the machine. With no one to influence his now empty mind, he dies.

STARSHIP FACTS

The Tantalus V penal colony is highly regarded for its work until Captain Kirk exposes the negative side effects of the neural neutralizer.

ON SCREEN...



Something on the planet has made Dr. Van Gelder insane. According to Dr. Adams it was an unfortunate accident, but Kirk isn't so sure.



2 Dr. Adams greets Captain Kirk and Dr. Noel. Everything on the Tantalus colony seems normal, but the inmates are strangely 'blank'.



3 Kirk decides to try out the neural neutralizer for himself. According to Dr. Adams, it will have little effect, except to relax him.



4 Dr. Adams surprises Dr. Noel and uses the neural neutralizer to brainwash Kirk. It seems that the machine is far from harmless.



On the U.S.S. ENTERPRISE Spock decides to mind-meld with Van Gelder to find out what really happened on the penal colony.



When the power is restored, Dr. Adams is subjected to the full power of the neural neutralizer. Without anyone to control him, his mind simply shuts down.

'Emanations'

When the crew of the U.S.S. Voyager NCC-74656 discover a new element, they think they may have found a way to make their journey home easier. But when Harry Kim disappears, the crew are forced to risk the ship to get him back from another dimension.

STARDATE: 48623.5

"There are 246 elements known to Federation science. We believe we have just discovered the 247th inside the ring system of a Class-D planet.

he U.S.S. Voyager NCC-74656 discovers a new element in the rings around a planet. Commander Chakotay takes a team to one of the asteroids, where they find a burial chamber.

The element is coming from the bodies. As the away team examine the site, a subspace distortion forms. The away team beam back to the Voyager, but when they materialize Harry Kim is missing. In his place is a corpse. The body only died recently, and in sickbay the Doctor revives it.

Meanwhile, Harry finds himself in a cenotaph, a large coffin-like casket, on an alien world. The aliens believe that Harry has come from the next Emanation, which they believe is the afterlife, and are disturbed when he tells them that he saw dead bodies. Dr. Nerla, a thanatologist (an expert on death), tells Harry that the cenotaph terminates a person's life just before a spectral rupture appears to take the dead person to the next Emanation.

On the Voyager, the revived alien, Ptera, is disturbed to discover that she isn't in the afterlife. As she talks, a subspace disturbance forms on the ship, depositing a body near the warp core.

Meanwhile, one of the aliens, Hatil, is having doubts about his death. He tells Harry that he is a burden to his family, and that he is only going to the next Emanation to relieve the pressure on them.

Coming home

Ptera wants to go home and is prepared to risk dying. B'Elanna attempts to replicate the accident, but Ptera dies in the attempt.

Dr. Nerla tells Harry that they plan to take him to a medical facility, and refuses to allow him to examine the cenotaph. Harry changes places with Hatil. Wrapped in Hatil's shroud, Harry climbs into the cenotaph and is powerless as it kills him.

The subspace disturbances are putting the Voyager in danger, and Janeway is about to leave when Harry's corpse appears. The body is beamed to sickbay, where the Doctor is able to revive a relieved Ensign Kim.

TARSHIP FACTS

Neural energy from the corpses forms an unusual field that may be conscious - perhaps even a kind of afterlife.

ON SCREEN...



The U.S.S. VOYAGER away team are surprised to find the asteroid filled with bodies. The element they had detected is coming from these corpses.



Harry finds himself in a cenotaph. It seems that a transporter accident has sent him into another dimension. The inhabitants of this planet believe that he has come back from the afterlife, and are shocked when he tells them he has seen dead bodies on the other side.



When the away team return to the ship, they are one member short. A dead body has taken Harry Kim's place. B'Elanna's scans show that it can be revived.



4 Ptera dies during an attempt to recreate the transporter accident, but she was more than willing to risk death in an attempt to return to her own dimension.



5 Harry waits for the cenotaph to kill him. He hopes that when the VOYAGER crew find him, their advanced medical knowledge will be enough to revive him.



6 Captain Janeway tells Harry to take some time to think about what has happened to him. It's not every day that someone comes back from the dead.



'Prime Factors'

Captain Janeway is delighted when the pleasure-loving Sikarians offer her crew their hospitality, but a welcome vacation turns into something more when Harry Kim discovers that their hosts have the technology to send them halfway back to the Alpha Quadrant.

hile the *U.S.S. Voyager* crew are on shore leave on Sikaris, a young woman called **Eudana** uses a transporter platform to take Harry Kim to a planet 40,000 light years away. Harry returns to Sikaris and tells Janeway about the platform, which folds space. But the Magistrate, Gath Labin, tells her that his laws forbid him from sharing the technology.

Tuvok points out that Gath's refusal may not be final. Stories are very important to the Sikarians, and Harry suggests trading the stories in the *U.S.S. Voyager's* databanks for the technology. Janeway makes the offer to Gath, who agrees to consider it.

Gath's assistant, Jaret, tells Harry that Gath will not help the Voyager crew, and offers to make the exchange himself - illegally.

Janeway is dismayed at Harry's news, and returns to the surface where she confronts Gath. She tells him that her crew cannot stay with the Sikarians, who are only interested in instant gratification. An angry Gath tells the Voyager crew to leave Sikaris at once.

Act of betrayal

Seska and Carey persuade B'Elanna to make the exchange behind Janeway's back. But when they get to the transporter room, they are interrupted by Tuvok, who tells them he will make the exchange.

Tuvok hands the Sikarian device to Torres. The engineers soon realize that the Sikarian planet is needed to focus the energy that is used to fold space and, unable to wait, they activate the device. But the Sikarian technology is incompatible with Federation engines, and B'Elanna has to destroy the device to prevent a warp core breach.

B'Elanna turns herself in, but Tuvok stops her taking responsibility for the incident - he was the senior officer involved. He tells Janeway that he acted to save her from a moral dilemma. A stunned Janeway cannot believe what he has done, and tells her friend how deeply he has disappointed her.

TARSHIP FACTS

Janeway understands Gath's position because the Prime Directive prevents Federation officers sharing their technology with other cultures

ON SCREEN...



The Sikarians are an extremely generous people, and take great pleasure in making the crew of the U.S.S. VOYAGER as happy as possible.



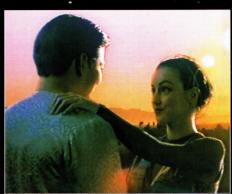
3 Jaret tells Harry that Gath has no intention of trading the transporter technology. But he is willing to break the law to get the VOYAGER's stories.



5 The Sikarian technology is incompatible, and it is only B'Elanna's quick thinking that saves the ship from a warp core breach.

BTARDATE: 49642.5

"The crew is enjoying an evening on Sikaris. They are discovering, to their delight, that reports of this species' hospitality have not been exaggerated.



When the sun comes up, Harry realizes that he isn't on Sikaris any more. By folding space, Sikarian transporters can make a journey of 40,000 light years.



When Tuvok catches them, Seska and the other conspirators are surprised to discover that he is prepared to disobey the captain.



6 Janeway is deeply disappointed in Tuvok. She is stunned that her trusted friend could use logic to justify such questionable actions.